

Title (en)
PROTECTIVE HOUSING FOR AN ELECTRONIC MODULE AND ASSEMBLY METHOD

Title (de)
SCHUTZGEHÄUSE FÜR EIN ELEKTRONISCHES MODUL UND MONTAGEVERFAHREN

Title (fr)
BOÎTIER DE PROTECTION D'UN MODULE ÉLECTRONIQUE ET PROCÉDÉ D'ASSEMBLAGE

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Application
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Abstract (en)
The present invention relates to a protective housing for an electronic module and to a corresponding method of assembling a protective housing with an electronic module. The protective housing comprises a shell (102) which defines an inner compartment (103) for accommodating an electrically functional component (104), a cooling element (106) comprising a cover plate (108), a first side plate (110), and a second side plate (112), the first side plate (110) and second side plate (112) extending from the cover plate (108) and facing each other, thereby forming an inside surface, an outside surface, and an edge (118) of the cooling element, wherein at least a part of said inside surface of the cooling element (106) covers the shell (102) to form a cover of the inner compartment (103), at least one cut-out (120) which is part of the cover plate (108) for filling the inner compartment (103) with an electrically insulating material, at least one first channel (122) forming partly the cover plate (108), wherein the first channel connects opposing edges (118) of the cooling device (106) and increases the volume of the inner compartment (103), and wherein said inner compartment (103) is filled with the electrically insulating material leaving a void (154, 156) in at least a part of said first channel (122).

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EP 2227929 B1 20130313 - BOSCH GMBH ROBERT [DE]

Citation (search report)
• [XDI] EP 2227929 B1 20130313 - BOSCH GMBH ROBERT [DE]
• [XI] EP 0489341 A1 19920610 - BSG SCHALTTECHNIK [DE]
• [A] US 2012002381 A1 20120105 - ZANONI UMBERTO [IT]
• [A] DE 102014104856 A1 20151008 - INFINEON TECHNOLOGIES AG [DE]

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